REQUEST FOR ACCESS OF ABANDONED APPLICATION UNDER 37 CFR 1.14(a)

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[11] Patent Number:

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5,418,752

43] Date of Patent:

May 23, 1995

[54] FLASH EEPROM SYSTEM WITH ERASE SECTOR SELECT

United States Patent

[75] Inventors: Eliyahou Harari, Los Gatçs; Robert D. Norman, San Jose; Sanjay Meltrotra, Milpitas, all of Calif.

[73] Assignee: Sundisk Corporation, Santa Clara, Calif.

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[21] Appl. No.: 963,851

Harari et al.

[22] Filed: Oct. 20, 1992

Related U.S. Application Data

[62] Division of Ser. No. 337,566, Apr. 13, 1989, abundoned.

[58] Field of Scarch 365/185, 218, 900, 230.03

[56]

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OTHER PUBLICATIONS

R. Wilson, "1-Mbit flash memories seek their role in

system design", Computer Design, Mar. 1, 1989, pp. 30 and 32.

Primary Examinar Described A. Popek Attorney, Agent, or Firm—Majestic, Parsons, Siebert & Hsuc

[57] ABSTRACT

A system of Flash EEprom memory chips with controlling circuits serves as non-volatile memory such as that provided by magnetic disk drives. Improvements include selective multiple sector erase, in which any combinations of Flash sectors may be crased together. Solective sectors among the selected combination may also be de-selected during the erase operation. Another improvement is the ability to remap and replace defective cells with substitute cells. The remapping is performed automatically as soon as a defective cell is detected. When the number of defects in a Flash sector becomes large, the whole sector is remapped. Yet another improvement is the use of a write cache to reduce the number of writes to the Flash EEprom memory, thereby minimizing the stress to the device from undergoing too many write/crase cycling.

4 Claims, 5 Drawing Sheets

